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### [1. f: Aerosol Scattering and Absorption \(in situ\)](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

The aerosol absorption coefficient, together with the aerosol scattering coefficient, determines the single-scattering albedo. This key aerosol property, along with the factors that contribute to it, are critical for determining heating rates and climate forcing by aerosols. Therefore, grant applications are sought to develop reliable instruments for the in situ measurement (using aircraft or ball ...

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### [2. g: Other](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date: 10-15-2013

In addition to the specific subtopics listed above, the Department invites grant applications in other areas that fall within the scope of the topic description above.

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### [3. 18: CARBON CYCLE AND RELATED GREENHOUSE GAS MEASUREMENTS OF THE ATMOSPHERIC AND THE BIOSPHERE](#)

Release Date: 08-12-2013Open Date: 08-12-2013Due Date: 10-15-2013Close Date:

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Eighty-five percent of our nation's energy results from the burning of fossil fuels from vast reservoirs of coal, oil, and natural gas. These processes add carbon to the atmosphere, principally in the form of carbon dioxide (CO<sub>2</sub>). It is important to understand the fate of this excess CO<sub>2</sub> in the global carbon cycle in order to assess contemporary terrestrial carbon sinks, the sensitivity o ...

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#### **[4. b: Innovation and Improvement for In Situ Root Measurements](#)**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Fine roots (generally < 2 mm in diameter) play a critical role in the carbon and nutrient cycles of ecosystems. Their production, distribution within the soil, and turnover must be measured to have a full understanding of how an ecosystem is responding to perturbations such as climate change (Reference 2, 10 and 11). Currently, the best method available for quantifying fine roots is minirh ...

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#### **[5. c: Improved Real-Time Measurements of Nitrous Oxide Emission from Soils](#)**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Nitrous oxide (N<sub>2</sub>O) is an important greenhouse gas, resulting primarily from microbial activity in the soil, and is partially regulated by soil chemical and physical properties (for example, soil pH, organic matter availability, soil type, temperature, and moisture). Nitrous oxide emission can be highly variable in both space and time due to nitrogen amendments and other biogeochemical perturbati ...

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#### **[6. d: Innovation and Improvement for In Situ Physical and Chemical of Soil Properties](#)**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Quantification and analysis of the physical and chemical properties of the soil are particularly difficult due to the inherent spatial and temporal variability of soils. Current methods require soils to be extracted from the field and transported to a laboratory setting for investigation that could result in artifacts in data analysis (Reference 2, 3, 4, 19 and 20). A number of recent advances h ...

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#### **[7. e: Other](#)**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

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## **8. 19: ENHANCED AVAILABILITY OF CLIMATE MODEL OUTPUT**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

Federal investment in the development of climate and earth system models for scientific analysis is dominated by programmatic support from the Department of Energy, National Aeronautics and Space Administration (NASA), National Oceanic and Atmospheric Administration (NOAA), and National Science Foundation (NSF). Model output resulting from climate change projections is a valuable resource and the ...

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## **9. b: Accessibility of Integrated Assessment Models, Data, and Tools to Non Researchers**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

The purpose of this subtopic is to improve the accessibility of Integrated Assessment data, models, and tools to non-researchers, including improved interfaces and visualization systems for conducting analyses and interpreting data. In particular, efforts should seek to develop and-or improve capabilities for accessing information in ways that accommodate the needs of various sectors, cross-secto ...

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## **10. c: Develop Modeling Capabilities and Tools that will Facilitate a Better Linkage Between Global and Regional Climate Model Output and Wind-Energy Stakeholders**

Release Date: 08-12-2013 Open Date: 08-12-2013 Due Date: 10-15-2013 Close Date: 10-15-2013

There is a wide range of uncertainties in general circulation and regional climate models that make them unsuitable for direct use in the design and planning of wind-energy systems. In addition, the global climate model output resolution is much too coarse for use by wind energy planners. Modeling tools that are capable of converting the output of global models to local scales and enable better un ...

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